Aim:

Basic Spring Boot Application with Spring Data JPA

Description:

In this experiment, we will create a Spring Boot application that connects to a MySQL database and uses Spring Data JPA to perform basic database operations. The application will allow inserting and retrieving student records through a RESTful API.

- > Student.java The entity class representing students.
- > StudentRepository.java The JPA repository interface for database operations.
- > StudentController.java REST controller for handling HTTP requests.
- > StudentApplication.java Main application class for bootstrapping the application.
- **application.properties** Configuration file for database and server.
- **pom.xml** Maven configuration file for dependencies.

Program:

StudentApplication.java

```
package com.example;
import org.springframework.boot.CommandLineRunner;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.annotation.Bean;
@SpringBootApplication
public class StudentApplication {
      public static void main(String[] args) {
              SpringApplication.run(StudentApplication.class, args);
       }
       @Bean
  CommandLineRunner initDatabase(StudentRepository repo) {
    return args -> {
       repo.save(new Student(1, "Rakesh kumar"));
       repo.save(new Student(2, "Murali"));
      repo.save(new Student(3, "vamsi"));
       System.out.println("Students inserted!");
    };
}
```

Student.java

```
package com.example;
import jakarta.persistence.Entity;
import jakarta.persistence.Id;
@Entity
public class Student {
       @Id
  private int sno;
  private String sname;
  public Student() {}
  public Student(int sno, String sname) {
     this.sno = sno;
    this.sname = sname;
  }
  public int getSno() { return sno; }
  public void setSno(int sno) { this.sno = sno; }
  public String getSname() { return sname; }
  public void setSname(String sname) { this.sname = sname; }
}
```

application.properties

```
spring.application.name=Student
server.port= 9640
spring.datasource.url=jdbc:mysql://localhost:3306/mca
spring.datasource.username=root
spring.datasource.password= Pradeep@79979
spring.jpa.hibernate.ddl-auto=create-drop
spring.jpa.show-sql=true
```

StudentController.java

```
package com.example;
import java.util.List;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
@RestController
//@RequestMapping("/students")
public class StudentController {
       private final StudentRepository repo;
  public StudentController(StudentRepository repo) {
    this.repo = repo;
  //@RequestMapping("/students")
  // Add new student
  @PostMapping
  public Student addStudent(@RequestBody Student student) {
    return repo.save(student);
  }
  // Get all students
  @GetMapping
  public List<Student> getAllStudents() {
    return repo.findAll();
}
```

StudentRepository.java (Interface)

```
package com.example;
import org.springframework.data.jpa.repository.JpaRepository;
public interface StudentRepository extends JpaRepository<Student, Integer>{
}
```

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
      <modelVersion>4.0.0</modelVersion>
      <parent>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-parent</artifactId>
            <version>3.5.4</version>
            <relativePath/> <!-- lookup parent from repository -->
      </parent>
      <groupId>com</groupId>
      <artifactId>StudentApplication</artifactId>
      <version>0.0.1-SNAPSHOT
      <name>Student</name>
      <description>Demo project for Spring Boot</description>
      <url/>
      licenses>
            license/>
      <developers>
            <developer/>
      </developers>
      <scm>
            <connection/>
            <developerConnection/>
            <tag/>
            <ur1/>
      </scm>
      properties>
            <java.version>21</java.version>
      </properties>
      <dependencies>
            <dependency>
                   <groupId>org.springframework.boot</groupId>
                   <artifactId>spring-boot-starter-data-jdbc</artifactId>
```

```
</dependency>
              <dependency>
                     <groupId>org.springframework.boot</groupId>
                     <artifactId>spring-boot-starter-web</artifactId>
              </dependency>
              <dependency>
                     <groupId>com.mysql</groupId>
                     <artifactId>mysql-connector-j</artifactId>
                     <scope>runtime</scope>
              </dependency>
              <dependency>
                     <groupId>org.springframework.boot</groupId>
                     <artifactId>spring-boot-starter-test</artifactId>
                     <scope>test</scope>
              </dependency>
              <!-- https://mvnrepository.com/artifact/org.springframework.boot/spring-boot-
starter-data-jpa -->
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-data-jpa</artifactId>
  <version>3.5.2
</dependency>
      </dependencies>
       <build>
              <plugins>
                     <plugin>
                            <groupId>org.springframework.boot</groupId>
                            <artifactId>spring-boot-maven-plugin</artifactId>
                     </plugin>
              </plugins>
      </build>
</project>
```

Output:

```
Console X
                                                                                    🎝 🗙 🐧 📳 📳 🗐 💆 📑 🔻
 Student - StudentApplication [Spring Boot App] C:\Users\ASUS\Downloads\spring-tools-for-eclipse-4.31.0.RELEASE-e4.36.0-win32.win32.w86_64\sts-4.31.0.RELEASE\plugins\org.eclipse.justj.ope
Hibernate: create table student (sno integer not null, sname varchar(255), primary key (sno)) engine=InnoDB
--- [Student] [
--- [Student] [
2025-09-25T14:08:32.945+05:30 WARN
main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 5879
main] com.example.StudentApplication : Started StudentApplication
Hibernate: select s1_0.sno,s1_0.sname from student s1_0 where s1_0.sno=?
Hibernate: insert into student (sname, sno) values (?,?)
Hibernate: select s1_0.sno,s1_0.sname from student s1_0 where s1_0.sno=?
Hibernate: insert into student (sname, sno) values (?,?)
Hibernate: select s1_0.sno,s1_0.sname from student s1_0 where s1_0.sno=?
Hibernate: insert into student (sname, sno) values (?,?)
Students inserted!
```

Aim:

Pagination and Sorting in Spring Data JPA

Description:

In this experiment, we will create a Spring Boot application that demonstrates how to paginate and sort database records using Spring Data JPA. We will use a Book entity with sample data, a JPA repository interface for database operations, and a REST controller to handle requests. Pagination parameters (page, size) and sorting parameters (sortBy, direction) will be passed via URL query parameters to retrieve data in a paginated and sorted manner.

Program:

application.properties

```
spring.application.name=Book
spring.datasource.url=jdbc:mysql://localhost:3306/new
spring.datasource.username=root
spring.datasource.password=Pradeep@79979
spring.jpa.hibernate.ddl-auto=create-drop
spring.jpa.show-sql=true
server.port=8844
```

BookApplication.java

```
package com.example.demo;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class BookApplication {
    public static void main(String[] args) {
        SpringApplication.run(BookApplication.class, args);
    }
}
```

Book.java

```
package com.example.demo;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
@Entity
public class Book {
       @Id
  @GeneratedValue(strategy = GenerationType. IDENTITY)
  private long id;
  private String title;
  private String author;
  public Book() {}
  public Book(String title, String author) {
     this.title = title;
     this.author = author;
  }
  @Override
  public String toString() {
     return "Book{id=" + id + ", title="" + title + "", author="" + author + ""}";
  }
  // getters and setters
  public Long getId() { return id; }
  public void setId(Long id) { this.id = id; }
  public String getTitle() { return title; }
  public void setTitle(String title) { this.title = title; }
  public String getAuthor() { return author; }
  public void setAuthor(String author) { this.author = author; }
}
```

BookRepository (Interface)

```
package com.example.demo;
import org.springframework.data.jpa.repository.JpaRepository;
public interface BookRepository extends JpaRepository<Book, Long>{
```

```
BookController.java
package com.example.demo;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.data.domain.Page;
import org.springframework.data.domain.PageRequest;
import org.springframework.data.domain.Pageable;
import org.springframework.data.domain.Sort;
import org.springframework.web.bind.annotation.*;
@RestController
@RequestMapping("/books")
public class BookController {
       @Autowired
  private BookRepository bookRepository;
  @GetMapping("/init")
  public String initData() {
    if (bookRepository.count() == 0) {
       bookRepository.save(new Book("Spring Boot Basics", "John"));
      bookRepository.save(new Book("Java Programming", "Alice"));
      bookRepository.save(new Book("Hibernate in Action", "Bob"));
      bookRepository.save(new Book("Microservices Guide", "Carol"));
      bookRepository.save(new Book("Data Structures", "Davidraj"));}
    return "Sample books added!";
  @GetMapping
  public Page<Book> getBooks(
       @RequestParam(defaultValue = "0") int page,
       @RequestParam(defaultValue = "3") int size,
       @RequestParam(defaultValue = "title") String sortBy,
       @RequestParam(defaultValue = "asc") String direction
  ) {
    Sort sort = direction.equalsIgnoreCase("asc")?
         Sort.by(sortBy).ascending():
         Sort.by(sortBy).descending();
    Pageable pageable = PageRequest.of(page, size, sort);
    return bookRepository.findAll(pageable);
  }
}
```

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
project xmlns="http://maven.apache.org/POM/4.0.0"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
                https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>3.5.6</version>
    <relativePath/> <!-- lookup parent from repository -->
  </parent>
  <groupId>com</groupId>
  <artifactId>PaginationandSortingApplication</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>Book</name>
  <description>Demo project for Spring Boot</description>
  licenses>
    license/>
  <developers>
    <developer/>
  </developers>
  <scm>
    <connection/>
    <developerConnection/>
    <tag/>
    <url/>
  </scm>
  properties>
    <java.version>21/java.version>
  </properties>
```

```
<dependencies>
    <dependency>
       <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-data-jdbc</artifactId>
    </dependency>
    <dependency>
       <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>
    <dependency>
      <groupId>com.mysql</groupId>
      <artifactId>mysql-connector-j</artifactId>
      <scope>runtime</scope>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-test</artifactId>
       <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-data-jpa</artifactId>
    </dependency>
  </dependencies>
  <build>
    <plugins>
      <plugin>
         <groupId>org.springframework.boot</groupId>
         <artifactId>spring-boot-maven-plugin</artifactId>
      </plugin>
    </plugins>
  </build>
</project>
```

Output:

```
Book - BookApplication [Spring Boot App] C:\Users\ASUS\Downloads\spring-tools-for-eclipse-4.31.0.RELEASE-e4.36.0-win32.win32.x86_64\sts-4.31.0.R

Database version: 8.0.42

Autocommit mode: undefined/unknown

Isolation level: undefined/unknown

Minimum pool size: undefined/unknown

Maximum pool size: undefined/unknown

2025-09-25T14:24:32.652+05:30 INFO 2654 --- [Book] [ main] o.h.e.t.j.p.i.JtaPlatformInitiator :

Hibernate: drop table if exists book

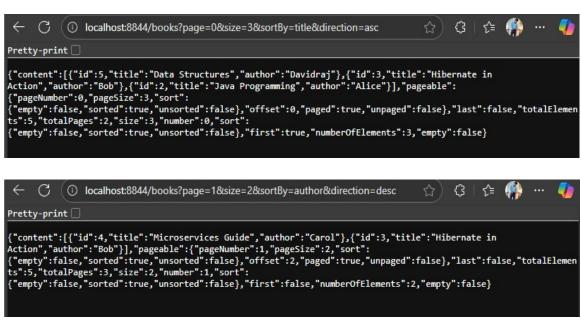
Hibernate: create table book (id bigint not null auto_increment, author varchar(255), title varchar(255), primary
2025-09-25T14:24:33.299+05:30 INFO 2654 --- [Book] [ main] j.localContainerEntityNanagerFactoryBean :
2025-09-25T14:24:33.558+05:30 WARN 2654 --- [Book] [ main] JpaBaseConfiguration$JpaWebConfiguration :
2025-09-25T14:24:34.170+05:30 INFO 2664 --- [Book] [ main] o.s.b.w.embedded.tomcat.TomcatWebServer :
2025-09-25T14:24:34.181+05:30 INFO 2664 --- [Book] [ main] com.example.demo.BookApplication :
```

```
← C ① localhost:8844/books/init

Sample books added!
```

```
■ Console X
2025-09-25T14:24:33.558+05:30 WARN 255
                                    --- [Book] [
                                                         main] JpaBaseConfiguration$JpaWebConfiguration
2025-09-25T14:24:34.170+05:30 INFO
                                    --- [Book] [
                                                         main] o.s.b.w.embedded.tomcat.TomcatWebServer
2025-09-25T14:24:34.181+05:30 INFO
                                    --- [Book] [
                                                         main] com.example.demo.BookApplication
2025-09-25T14:26:09.914+05:30 INFO
                                    --- [Book] [nio-8844-exec-2] o.a.c.c.C.[Tomcat].[localhost].[/]
2025-09-25T14:26:09.935+05:30
                                    --- [Book] [nio-8844-exec-2] o.s.web.servlet.DispatcherServlet
                                    --- [Book] [nio-8844-exec-2] o.s.web.servlet.DispatcherServlet
2025-09-25T14:26:10.088+05:30
Hibernate: select count(*) from book b1_0
Hibernate: insert into book (author, title) values (?,?)
```

```
mysql> use new;
Database changed
mysql> select * from book;
Empty set (0.94 sec)
mysql> select * from book;
  id
      author
                  title
   1
                  Spring Boot Basics
      John
   2
       Alice
                  Java Programming
   3
       Bob
                  Hibernate in Action
   4
                  Microservices Guide
       Carol
       Davidraj | Data Structures
5 rows in set (0.07 sec)
```



```
Book-BookApplication [Spring Boot App] C:\Users\ASUS\Downloads\spring-tools-for-eclipse-4.31.0.RELEASE-e4.36.0-win32.w86_64\sts-4.31.0.RELEASE\plugins\org.entipernate: Insert into book (author,title) values (?,?)
Hibernate: insert into book (author,title) values (?,?)
Hibernate: insert into book (author,title) values (?,?)
Hibernate: select b1_0.id,b1_0.author,b1_0.title from book b1_0 order by b1_0.title limit ?,?
Hibernate: select count(b1_0.id) from book b1_0
2025-09-25T14:27:38.039+05:30 WARN 2564 --- [Book] [nio-8844-exec-5] ration$PageModule$WarningLoggingModifier: Serializing PageI For a stable JSON structure, please use Spring Data's PagedModel (globally via @EnableSpringDataWebSupport(pageSerializat: or Spring HATEOAS and Spring Data's PagedResourcesAssembler as documented in https://docs.spring.io/spring-data/commons/relibernate: select b1_0.id,b1_0.author,b1_0.title from book b1_0 order by b1_0.title limit ?,?
Hibernate: select b1_0.id,b1_0.author,b1_0.title from book b1_0 order by b1_0.author desc limit ?,?
Hibernate: select count(b1_0.id) from book b1_0
```

Aim:

Implementing AOP for Logging with Spring Data JPA

Description:

In this experiment, we create a Spring Boot application to manage products. The application includes:

- **Entity** Product with id, name, and price.
- **Repository** ProductRepository for database operations.
- > Service ProductService to handle business logic.
- ➤ **Controller** ProductController for REST APIs.
- ➤ Aspect LoggingAspect to log method calls in ProductService.
- ➤ Database H2 in-memory DB or MySQL.
- ➤ **Dependency Management** Managed via Maven (pom.xml).

This demonstrates the use of **Spring Data JPA**, **Spring AOP**, and **RESTful API development**.

Program:

ProductRepository.java (Interface)

```
package com.example.demo;
import org.springframework.data.jpa.repository.JpaRepository;
public interface ProductRepository extends JpaRepository<Product, Long> {
}
```

ProductService.java

```
package com.example.demo;
import org.springframework.stereotype.Service;
import java.util.List;
@Service
public class ProductService {
    private final ProductRepository repo;
    public ProductService(ProductRepository repo) {
        this.repo = repo;
    }
    public Product saveProduct(Product product) {
        return repo.save(product);
    }
    public List<Product> getAllProducts() {
        return repo.findAll();
    }
}
```

application.properties

```
spring.application.name=product
spring.datasource.url=jdbc:mysql://localhost:3306/mca
spring.datasource.username=root
spring.datasource.password=Pradeep@79979
spring.jpa.hibernate.ddl-auto=create-drop
spring.jpa.show-sql=true
server.port=8889
```

Product.java

```
package com.example.demo;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
@Entity
public class Product {
  @Id
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  private long id;
  private String name;
  private double price;
  public Product() {}
  public Product(String name, double price) {
     this.name = name;
     this.price = price;
  }
  // getters & setters
  public Long getId() { return id; }
  public void setId(Long id) { this.id = id; }
  public String getName() { return name; }
  public void setName(String name) { this.name = name; }
  public double getPrice() { return price; }
  public void setPrice(double price) { this.price = price; }
}
```

ProductController.java

```
package com.example.demo;
import org.springframework.web.bind.annotation.*;
import java.util.List;
@RestController
@RequestMapping("/products")
public class ProductController {
  private final ProductService service;
  public ProductController(ProductService service) {
    this.service = service;
  }
  @PostMapping("/add")
  public Product addProduct(@RequestBody Product product) {
    return service.saveProduct(product);
  @GetMapping("/all")
  public List<Product> getAllProducts() {
    return service.getAllProducts();
  }
}
```

LoggingAspect.java

```
package com.example.demo;
import org.aspectj.lang.JoinPoint;
import org.aspectj.lang.annotation.Aspect;
import org.aspectj.lang.annotation.Before;
import org.springframework.stereotype.Component;

@Aspect
@Component
public class LoggingAspect {
    // Logs before executing any ProductService method
    @Before("execution(* com.example.demo.ProductService.*(..))")
    public void logBefore(JoinPoint joinPoint) {
        System.out.println(">>>> Entering method: " + joinPoint.getSignature().getName());
    }
}
```

main.java

```
package com.example.demo;
import org.springframework.boot.CommandLineRunner;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.annotation.Bean;
@SpringBootApplication
public class ProductApplication {
      public static void main(String[] args) {
              SpringApplication.run(ProductApplication.class, args);
       }
       @Bean
         CommandLineRunner runner(ProductRepository repo) {
           return args -> {
              repo.save(new Product("Laptop", 55000));
              repo.save(new Product("Mobile", 20000));
              repo.save(new Product("Tablet", 30000));
              repo.save(new Product("Mouse", 35000));
           };
       }
}
```

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
https://maven.apache.org/xsd/maven-4.0.0.xsd">
      <modelVersion>4.0.0</modelVersion>
      <parent>
             <groupId>org.springframework.boot</groupId>
             <artifactId>spring-boot-starter-parent</artifactId>
             <version>3.5.4</version>
             <relativePath/> <!-- lookup parent from repository -->
      </parent>
      <groupId>com</groupId>
      <artifactId>productApplication</artifactId>
      <version>0.0.1-SNAPSHOT</version>
      <name>product</name>
      <description>Demo project for Spring Boot</description>
      <url/>
      licenses>
             license/>
      <developers>
             <developer/>
      </developers>
      <scm>
             <connection/>
             <developerConnection/>
             <tag/>
             <url/>
      </scm>
      properties>
             <java.version>21/java.version>
      </properties>
      <dependencies>
             <dependency>
                   <groupId>org.springframework.boot</groupId>
                   <artifactId>spring-boot-starter-data-jdbc</artifactId>
             </dependency>
             <dependency>
                   <groupId>org.springframework.boot</groupId>
                   <artifactId>spring-boot-starter-web</artifactId>
```

```
</dependency>
             <dependency>
                     <groupId>com.mysql</groupId>
                     <artifactId>mysql-connector-j</artifactId>
                     <scope>runtime</scope>
             </dependency>
             <dependency>
                     <groupId>org.springframework.boot</groupId>
                     <artifactId>spring-boot-starter-test</artifactId>
                     <scope>test</scope>
             </dependency>
                  <!-- Spring AOP -->
    <dependency>
       <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-aop</artifactId>
    </dependency>
  <!-- Lombok (optional, just to reduce boilerplate) -->
    <dependency>
       <groupId>org.projectlombok</groupId>
      <artifactId>lombok</artifactId>
       <optional>true</optional>
    </dependency>
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-data-jpa</artifactId>
  </dependency>
       <!-- H2 Database (in-memory, no need for MySQL setup) -->
    <dependency>
       <groupId>com.h2database/groupId>
      <artifactId>h2</artifactId>
      <scope>runtime</scope>
    </dependency>
      </dependencies>
      <build>
             <plugins>
                     <plugin>
                            <groupId>org.springframework.boot</groupId>
                            <artifactId>spring-boot-maven-plugin</artifactId>
                     </plugin>
             </plugins>
      </build>
</project>
```

Output:

```
💸 🗶 👅 🖹 🚮 🔂 👵
 Console X
product - ProductApplication [Spring Boot App] C:\Users\ASUS\Downloads\spring-tools-for-eclipse-4.31.0.RELEASE-e4.36.0-win32.win32.win32.x86_64\sts-4.31.0.RE
           Maximum pool size: undefined/unknown
                                                           --- [product] [
2025-09-25T14:43:50.417+05:30 INFO
                                                                                             main] o.h.e.t.j.p.i.JtaPlatformInitiator
Hibernate: drop table if exists product
Hibernate: create table product (price float(53) not null, id bigint not null auto_increment, name varchar(255), prima
main] j.LocalContainerEntityManagerFactoryBean : I
                                                                                             main] JpaBaseConfiguration$JpaWebConfiguration : sq
main] o.s.b.w.embedded.tomcat.TomcatWebServer : To
main] com.example.demo.ProductApplication : St
2025-09-25T14:43:52.069+05:30 INFO 19336
                                                         --- [product]
2025-09-25T14:43:52.081+05:30 INFO --- [product] [Hibernate: insert into product (name,price) values (?,?) Hibernate: insert into product (name,price) values (?,?) Hibernate: insert into product (name,price) values (?,?) Hibernate: insert into product (name,price) values (?,?)
Hibernate: insert into product (name, price) values (?,?)
```

```
mysql> use mca;
Database changed
mysql> show tables;
  Tables_in_mca
  product
  .
student
  rows in set (0.15 sec)
mysql> select * from product;
  price |
             id
                 1
                    name
                              ı
               1
2
3
                    Laptop
Mobile
  55000
  20000
   30000
                    Tablet
  35000
               4
                    Mouse
             set (0.03
```

```
      ├
      C
      ① localhost8889/products/all

      Pretty-print
      □

      [{"id":1,"name":"Laptop", "price":55000}, {"id":2,"name":"Mobile", "price":20000}, {"id":3,"name":"Tablet", "price":30000}, {"id":4,"name":"Mouse", "price":35000}]
```

```
Console X
product - ProductApplication [Spring Boot App] C:\Users\ASUS\Downloads\spring-tools-for-eclipse-4.31.0.RELEASE-e4.36.0
                                                                   main] j.Localconcainerent
main] JpaBaseConfiguratio
2025-09-25114:45:51.14/+05:50
                                              [broauct] [
2025-09-25T14:43:51.460+05:30 WARN
                                          --- [product]
                                                                    main] o.s.b.w.embedded.to
2025-09-25T14:43:52.069+05:30 INFO
                                          --- [product] [
2025-09-25T14:43:52.081+05:30 INFO
                                          --- [product] [
                                                                    main] com.example.demo.Pr
Hibernate: insert into product (name, price) values (?,?)
2025-09-25T14:46:42.053+05:30 INFO 2025-09-25T14:46:42.137+05:30 INFO
                                         --- [product] [nio-8889-exec-1] o.s.web.servlet.Dis
>>> Entering method: getAllProducts
Hibernate: select p1 0.id,p1 0.name,p1 0.price from product p1 0
```